

Technical Data Sheet

Stellar HSL- WB2200



Water-based, flexible heat-seal lacquer developed for food and blister packaging. The lacquer can be directly applied in a single step onto ALU, PET, and PAPER foils and is quickly activated from 120°C onwards. It is suitable for sealing on ALU, PET, PS, PVC, and PLA packaging. HSL-WB2200 is used in packaging for soft drinks and dairy products, as well as for other disposable drinking cups.

Product Description

Stellar HSL-WB2200 is a water-based heat-seal lacquer contains special thermoplastic copolymers and additives as dispersion. The product is a heat sealable lacquer, can be directly applied in a single step onto ALU, PET, and PAPER surfaces and can be used also for multiple purposes. The product is activated at low temperatures, and the appropriate sealing temperature should be determined according to production conditions.

Appearance:	Opaq Liquid
Active substance:	35-45 %
Specific gravity:	1,03 g/ml 20°C
Viscosity:	28 sec. (DIN 53211, 4mm)
Solvents:	Distilled Water, osmosis water, Ethanol

Application Information

Sealing on materials:	ALU, PET, PS, PVC, PLA
Application methods:	Rotogravure, roller coating, semi-flexo
Recommended coating weight:	4-8 g/m ² solids
Recommended viscosity:	15-20 seconds (DIN 53211, 4 mm)
Recommended diluents:	Distilled water, osmosis water
Recommended drying temperature:	In general, temperatures between 130-160°C for 5-10 seconds are sufficient. The relation between machine speed and temperature, the applied lacquer weight, drying zone temperature-time profile, evaporation concentration, airflow rate, and humidity must be strictly observed. Therefore, we recommend testing and measuring the residual solvent content.

Adhesion and Seal Strength Values

AL / APET	N/15 mm: 9	(Brugger-HSG C 190°C, 1 sec, 460N, tolerance ±2)
AL / PS	N/15 mm: 9	(Brugger-HSG C 190°C, 1 sec, 460N, tolerance ±2)*
PET / PS	N/15 mm: 8	(Brugger-HSG C 190°C, 1 sec, 460N, tolerance ±2)*
PET / PET	N/15 mm: 7	(Brugger-HSG C 190°C, 1 sec, 460N, tolerance ±2)

The values indicated above depend on the sealing temperature, and the values will decrease with lower temperatures

*Coating on NC coated Paper, internal trials are necessary.

Hygienic instructions and Compliance

Stellar HSL-WB2200 is a water-based dispersion whose hygienic properties comply with **Regulation (EC) No. 1935/2004** of the European Parliament and of the Council on materials and articles intended to come into contact with food, as well as with Commission **Regulation (EU) No. 10/2011 on plastic materials and articles intended for food contact**.

Safety instructions

Stellar HSL-WB2200 is water-based and non-flammable. Prolonged skin contact should be avoided. For detailed information, please refer to the product safety data sheets and declarations of conformity

Disposal

The product must be disposed of in accordance with the country's legal waste regulations. Appropriate waste management: Recycling/recovery should be applied in accordance with **Annex I, Article 13 of the EU Waste Framework Directive (2008/98/EC)**. Refer to the product safety data sheet for further information.

Storage and consumption

Store in a cool place, protected from frost. Keep away from direct sunlight and temperatures above 30°C. Keep out of reach of children. The product can be stored in its original, sealed packaging for up to 12 months. Storage must comply with official regulations.

Delivery package

Metall Hobbocks:	30 Kg
HDPE Drums:	120 Kg
IBC Containers:	1000 Kg



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